## **ABSTRACT**

A compound of formula:

in which L is sulfur, sulfoxide, oxygen or methylene, and a compound of formula:

in which (i) aa<sup>1</sup> is Adi and aa<sup>4</sup> is Glu or (ii) each of aa<sup>1</sup> and aa<sup>4</sup> is Adi, L is sulfur, sulfoxide, oxygen or methylene, which compounds (and their conjugates) bind to an SH2 domain in a protein comprising an SH2 domain, are non-phosphorylated, are redox-stable *in vivo*, are characterized by an IC<sub>50</sub> *in vivo* of less than about 4.0 μM with respect to the SH2 domain in Grb2, and, upon binding to the SH2 domain of Grb2, have a turn conformation. A conjugate comprising a compound as described above and a carrier agent, a composition comprising (i) a compound or a conjugate as described above and (ii) a carrier, a method of inhibiting binding of an SH2 domain in a protein comprising an SH2 domain to a target protein in an animal, wherein the SH2 domain is contacted with a target protein-binding inhibiting effective amount of a compound or a conjugate as described above, and a method of synthesizing such conjugates.

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